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ATTY. DOCKET NO.

10255-018-999

APPLICATION NO.

10/014,520

APPLICANT

G. PARUNAK et al.

FILING DATE

December 14, 2001

GROUP

1743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BS	AA	6,168,948 B1	1/2001	Anderson et al.	435	287.2	
BS	AB	6,043,080	3/2000	Lipshutz et al.	435	287.2	
BS	AC	5,863,502	1/1999	Southgate et al.	422	58	
BS	AD	5,674,742	10/1997	Northrup et al.	435	286.5	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

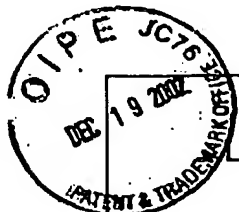
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

5/14/2004

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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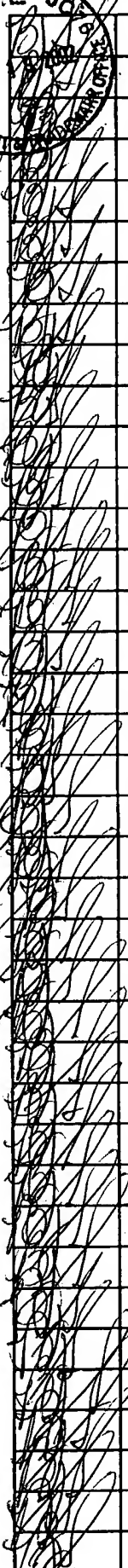
FILING DATE

December 14, 2001

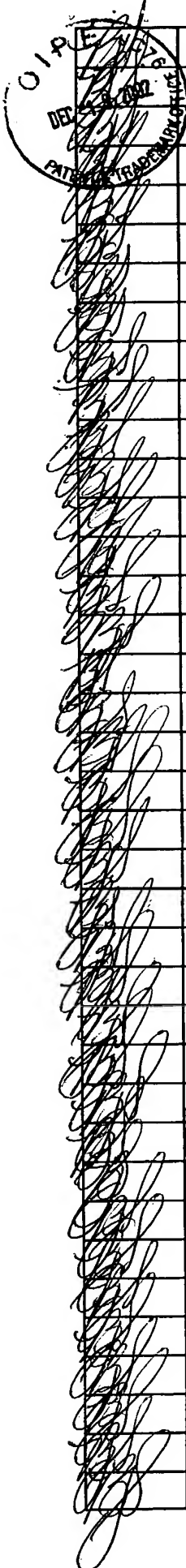
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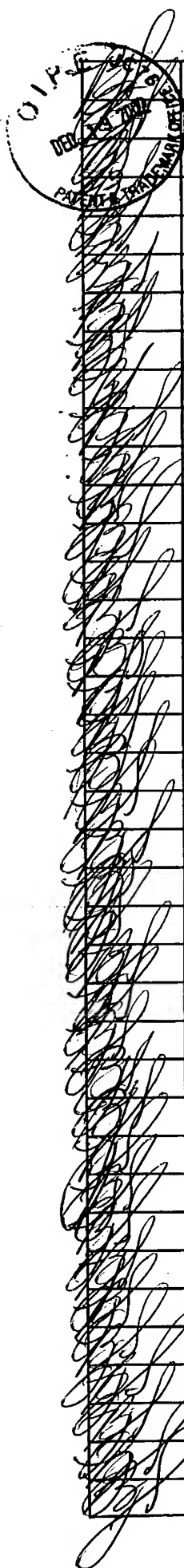
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
U.S. PATENT DOCUMENTS							
	AA	6,306,273	10/23/01	Wainright et al.	204	454	
	AB	6,287,254	09/11/01	Dodds	600	300	
	AC	6,130,098	10/10/00	Handique et al.	436	180	
	AD	6,057,149	05/02/00	Burns et al.	435	287.2	
	AE	6,056,860	05/02/00	Amigo et al.	204	454	
	AF	6,054,034	04/25/00	Soane et al.	204	601	
	AG	6,048,734	04/11/00	Burns et al.	436	180	
	AH	6,046,056	04/04/00	Parce et al.	436	514	
	AI	6,012,902	01/11/00	Parce	417	48	
	AJ	6,007,690	12/28/99	Nelson et al.	204	601	
	AK	6,004,515	12/21/99	Parce et al.	422	100	
	AL	6,001,307	12/14/99	Naka et al.	422	81	
	AM	6,001,231	12/14/99	Kopf-Sill	204	454	
	AN	5,997,708	12/07/99	Craig	204	601	
	AO	5,993,750	11/30/99	Ghosh et al.	422	191	
	AP	5,993,611	11/30/99	Moroney, III et al.	204	157.6	
	AQ	5,992,820	11/30/99	Fare et al.	251	129.01	
	AR	5,989,402	11/23/99	Chow et al.	204	601	
	AS	5,980,719	11/09/99	Cherukuri et al.	204	600	
	AT	5,980,704	11/09/99	Cherukuri et al.	204	269	
	AU	5,976,336	11/02/99	Dubrow et al.	204	453	
	AV	5,972,187	10/26/99	Parce et al.	204	453	
	AW	5,965,886	10/12/99	Sauer et al.	250	332	
	AX	5,965,410	10/12/99	Chow et al.	435	91.2	
	AY	5,965,001	10/12/99	Chow et al.	204	600	
	AZ	5,964,997	10/12/99	McBride	204	451	
	BA	5,964,995	10/12/99	Nikiforov et al.	204	450	
	BB	5,959,291	09/28/99	Jensen	250	214	
	BC	5,958,694	09/28/99	Nikiforov	435	6	
	BD	5,958,203	09/28/99	Parce et al.	204	451	
	BE	5,957,579	09/28/99	Kopf-Sill et al.	366	340	



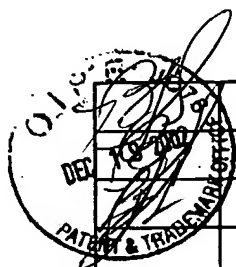
BF	5,955,029	09/21/99	Wilding et al.	422	68.1	
BG	5,955,028	09/21/99	Chow	422	63	
BH	5,948,227	09/07/99	Dubrow	204	455	
BI	5,942,443	08/24/99	Parce et al.	436	514	
BJ	5,939,291	08/17/99	Loewy et al.	435	91.2	
BK	5,935,401	08/10/99	Amigo	204	454	
BL	5,932,799	08/03/99	Moles	75	53.01	
BM	5,929,208	07/27/99	Heller et al.	530	333	
BN	5,928,880	01/27/99	Wilding et al.	435	7.21	
BO	5,927,547	07/27/99	Papen et al.	222	57	
BP	5,922,591	07/13/99	Anderson et al.	435	287.2	
BQ	5,919,711	07/06/99	Boyd et al.	436	178	
BR	5,916,776	06/29/99	Kumar	435	91.1	
BS	5,916,522	06/29/99	Boyd et al.	422	58	
BT	5,912,134	06/15/99	Shartle	435	7.24	
BU	5,912,124	06/15/99	Kumar	435	6	
BV	5,900,130	05/04/99	Benregnu et al.	204	453	
BW	5,895,762	04/20/99	Greenfield et al.	436	43	
BX	5,885,470	03/23/99	Parce et al.	216	33	
BY	5,885,432	03/23/99	Hooper et al.	204	469	
BZ	5,883,211	03/16/99	Sassi et al.	526	307.2	
CA	5,882,465	03/16/99	McReynolds	156	285	
CB	5,880,071	03/09/99	Parce et al.	204	453	
CC	5,876,675	03/02/99	Kennedy	422	99	
CD	5,874,046	02/23/99	Megerle	422	68.1	
CE	5,872,010	02/16/99	Karger et al.	436	173	
CF	5,869,004	02/09/99	Parce et al.	422	100	
CG	5,866,345	02/02/99	Wilding et al.	435	7.21	
CH	5,863,801	01/26/99	Southgate et al.	436	63	
CI	5,863,708	01/26/99	Zanzucchi et al.	430	320	
CJ	5,858,188	01/12/99	Soane et al.	204	454	
CK	5,856,174	01/05/99	Lipshutz et al.	435	286.5	
CL	5,852,495	12/22/98	Parce	356	344	
CM	5,849,598	12/15/98	Wilson et al.	436	180	
CN	5,849,489	12/15/98	Heller	435	6	
CO	5,849,486	12/15/98	Heller et al.	435	6	
CP	5,846,396	12/08/98	Zanzucchi et al.	204	601	
CQ	5,842,787	12/01/98	Kopf-Sill et al.	366	340	



CR	5,842,106	11/24/98	Thaler et al.	419	8	
CS	5,827,481	10/27/98	Bente et al.	422	81	
CT	5,800,690	09/01/98	Chow et al.	204	451	
CU	5,788,814	08/04/98	Sun et al.	204	297	
CV	5,787,032	07/28/98	Heller et al.	365	151	
CW	5,779,868	07/14/98	Parce et al.	204	604	
CX	5,772,966	06/30/98	Maracas et al.	422	100	
CY	5,770,029	06/23/98	Nelson et al.	204	604	
CZ	5,763,262	06/09/98	Wong et al.	435	287.2	
DA	5,755,942	05/26/98	Zanzucchi et al.	204	454	
DB	5,750,015	05/12/98	Soane et al.	204	454	
DC	5,747,666	05/05/98	Willis	73	1.02	
DD	5,731,212	03/24/98	Gavin et al.	436	526	
DE	5,726,026	03/10/98	Wilding et al.	435	7.21	
DF	5,699,157	12/16/97	Parce	356	344	
DG	5,683,657	11/04/97	Mian	422	68.1	
DH	5,681,529	10/28/97	Taguchi et al.	422	61	
DI	5,681,484	10/28/97	Zanzucchi et al.	216	2	
DJ	5,652,149	07/29/97	Mileaf et al.	436	518	
DK	5,646,039	07/08/97	Northrup et al.	435	287.2	
DL	5,643,738	07/01/97	Zanzucchi et al.	435	6	
DM	5,639,423	06/17/97	Northrup et al.	122	50	
DN	5,637,469	06/10/97	Wilding et al.	435	7.21	
DO	5,635,358	01/03/97	Wilding et al.	435	7.2	
DP	5,632,957	05/27/97	Heller et al.	422	68.1	
DQ	5,632,876	05/27/97	Zanzucchi et al.	204	600	
DR	5,631,337	05/20/97	Sassi et al.	526	307.2	
DS	5,628,890	05/13/97	Carter et al.	204	403	
DT	5,605,662	02/25/97	Heller et al.	422	68.1	
DU	5,603,351	02/18/97	Cherukuri et al.	137	597	
DV	5,599,503	02/04/97	Manz et al.	422	82.05	
DW	5,599,432	02/04/97	Manz et al.	204	451	
DX	5,593,838	01/14/97	Zanzucchi et al.	435	6	
DY	5,589,136	12/31/96	Northrup et al.	422	102	
DZ	5,587,128	12/24/96	Wilding et al.	422	50	
EA	5,585,089	12/17/96	Queen et al.	424	133.1	
EB	5,585,069	12/17/96	Zanucchi et al.	422	100	
EC	5,580,523	12/03/96	Bard	422	50	



ED	5,569,364	10/29/96	Hooper et al.	204	455	
EE	5,565,171	10/15/96	Dovich et al.	422	68.1	
EF	5,559,432	09/24/96	Logue	324	207.17	
EG	5,519,635	05/21/96	Miyake et al.	364	497	
EH	5,503,803	04/02/96	Brown	422	102	
EI	5,498,392	03/12/96	Wilding et al.	422	68.1	
EJ	5,486,335	01/23/96	Wilding et al.	422	55	
EK	5,427,946	06/27/95	Kricka et al.	435	291	
EL	5,411,708	05/02/95	Moscetta et al.	422	81	
EM	5,374,395	12/20/94	Robinson et al.	422	64	
EN	5,372,946	12/13/94	Cusak et al	436	69	
EO	5,339,486	08/23/94	Persic, Jr.	15	244.1	
EP	5,316,727	05/31/94	Suzuki et al.	422	68.1	
EQ	5,304,487	04/19/94	Wilding et al.	435	291	
ER	5,304,477	04/19/94	Nagoh et al.	435	134	
ES	5,296,375	03/22/94	Kricka et al.	435	291	
ET	5,282,950	02/01/94	Dietze et al.	204	406	
EU	5,250,263	10/05/93	Manz	422	81	
EV	5,208,163	05/04/93	Charlton et al.	436	63	
EW	5,147,606	09/15/92	Charlton et al.	422	56	
EX	5,135,872	08/04/92	Pouletty et al.	436	180	
EY	5,135,627	08/04/92	Soane	204	182.8	
EZ	5,126,022	06/30/92	Soane et al.	204	180.1	
FA	5,126,002	06/30/92	Iwata et al.	156	468	
FB	5,071,531	12/10/91	Soane	204	182.8	
FC	5,064,618	11/12/91	Baker et al.	422	82.01	
FD	5,061,336	10/29/91	Soane	156	245	
FE	5,053,199	10/01/91	Keiser et al.	422	68.1	
FF	5,004,583	04/02/91	Guruswamy et al.	422	58	
FG	5,001,417	03/19/91	Pumphrey et al.	324	71.5	
FH	4,989,626	02/05/91	Takagi et al.	137	828	
FI	4,963,498	10/16/90	Hillman et al.	436	69	
FJ	4,949,742	08/21/90	Rando et al.	137	828	
FK	4,946,562	08/07/90	Guruswamy	204	153.1	
FL	4,673,657	06/16/87	Christian	436	501	
FM	4,654,127	03/31/87	Baker et al.	204	1 T	
FN	4,612,959	09/23/86	Costello	137	251.1	
FO	4,139,005	02/13/79	Dickey	138	74	



FP	3,528,449	09/15/70	Witte et al.	137	251.1	
FQ	1,773,401	08/19/30	Lovekin	137	74	
FR	1,616,419	02/01/27	Wilson	137	251.1	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

FS	Handique and Burns, 2001, "Mathematical Modeling of Drop Mixing in a Slit-Type Microchannel", J. Micromech. Microeng. 11:548-554
FT	Handique et al., 2001, "On-Chip Thermopneumatic Pressure for Discrete Drop Pumping," Anal. Chem. 73:1831-1838
FU	Handique et al., 2000, "Nanoliter Liquid Metering in Microchannels Using Hydrophobic Patterns," Anal. Chem. 72:4100-4109
FV	Burns et al., 1998, "An Integrated Nanoliter DNA Analysis Device," Science 282:484-487

EXAMINER

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